

SHORT COMMUNICATION

Updates to Western Australia's vascular plant census for 2011

The census database at the Western Australian Herbarium (PERTH) lists current names and recent synonymy for Western Australia's native and naturalised vascular plants, as well as algae, bryophytes, lichens, slime moulds and some fungi. The names represented in the census are either sourced from published research or denote as yet unpublished names based on herbarium voucher specimens.

Taxonomic name changes can be difficult to keep track of, especially in a species-rich State such as Western Australia (WA). Therefore, following the example set by Barker and Lang (2012) for South Australia, this paper lists changes and additions to WA's vascular plant census during 2011 (Tables 1, 2). These data are a valuable adjunct to the electronic census, which is accessed via *FloraBase* (Western Australian Herbarium 1998–) and *Max* (Woodman & Gioia 1997–). Updates follow the consensus outcomes of the *Australian Plant Census* project (Council of Heads of Australasian Herbaria 2007–), with recommendations on taxonomic concepts from relevant specialists at PERTH. This paper does not include any corrections made to the electronic census for author citations or the bibliographic information associated with names. It is also important to note that changes made to WA's plant census in 2011 do not necessarily coincide with the year of publication of the new name or name change.

In 2011, 74 taxa were newly recorded for the State, of which 10 are naturalised and 11 have been added to the *Threatened and Priority Flora list for Western Australia* (Smith 2012) (Table 1). Plant groups for which a number of name changes were made in 2011 include *Eremophila* R.Br. (Brown & Buirchell 2011), *Hibbertia* Andrews (Toelken 2010), *Tephrosia* Pers. (ongoing revision of the Western Australian taxa by R. Butcher in collaboration with I. Cowie) and *Acacia* Mill. (specifically the 'Understanding Mulga' project by B.R. Maslin & J. Reid). Under the Council of Heads of Australasian Herbaria (CHAH) guidelines for informal names (Barker 2005), manuscript names are being converted to phrase names unless publication is imminent. Thirteen manuscript names were updated to phrase names through this process (Table 2). Table 2 also includes cases where there has been a change of taxonomic concept, misapplication, exclusion or rank change.

This is the first in a series of update lists planned for each calendar year. Green (1988) published the last such list in the *Cumulative supplement no. 7 to the Census of the vascular plants of Western Australia* (Green 1985).

Curation staff at PERTH and the Department of Environment and Conservation's 'Taxonomic Review Committee' have contributed to the information presented here.

Table 1. New records added to Western Australia's vascular plant census during 2011. Status: * = naturalised; T, P1–P4 = Conservation codes following Smith (2012).

New Name	Status	Comments
<i>Acalypha lanceolata</i> Willd. var. <i>lanceolata</i>		See Sagun <i>et al.</i> (2010).
<i>Acmella grandiflora</i> (Turcz.) R.K.Jansen var. <i>discoidea</i> R.K.Jansen		P. Wilson <i>in sched.</i> (19/07/2011).
<i>Adenostemma lavenia</i> (L.) Kuntze var. <i>lanceolatum</i> (Miq.) Kosterm.	P3	See Orchard (2011).
<i>Aenictophyton reconditum</i> A.T.Lee subsp. <i>reconditum</i>		See Thompson (2011a).
<i>Aenictophyton reconditum</i> A.T.Lee subsp. <i>macrophyllum</i> I.Thomps.		See Thompson (2011a).
<i>Ageratum conyzoides</i> L. subsp. <i>conyzoides</i>	*	See Johnson (1971).
<i>Aristida personata</i> Henrard		B.K. Simon <i>in sched.</i> (9/09/2011).
<i>Arthropodium</i> sp. Goldfields (H. Pringle 2188)		T. Macfarlane & A. Mitchell <i>in litt.</i> (23/12/2010).
<i>Ceriops australis</i> (C.T.White) Ballment, T.J.Sm. & J.A.Stoddart		See Sheue <i>et al.</i> (2009).
<i>Cleome arenitensis</i> Craven, Lepschi & Fryxell		See Craven <i>et al.</i> (2010a).
<i>Cosmos bipinnatus</i> Cav.	*	See CHAH (May 2011).
<i>Cosmos sulphureus</i> Cav.	*	See CHAH (May 2011).
<i>Dicrastyliis lewellinii</i> (F.Muell.) F.Muell.		R. Davis <i>in sched.</i> (27/09/2011).
<i>Dodonaea hispidula</i> Endl. var. <i>arida</i> (S.T.Reynolds) M.G.Harr.		See Harrington & Gadek (2010).
<i>Eleocharis jacobiana</i> K.L.Wilson		See Wilson (2011).
<i>Eleocharis triquetra</i> K.L.Wilson		See Wilson (2011).
<i>Eragrostis surreyana</i> K.A.Sheph. & Trudgen	P3	See Shepherd & Trudgen (2011).
<i>Eremophila fallax</i> Chinnock		See Chinnock (2007).
<i>Eremophila margarethae</i> S.Moore subsp. straight sepals (G. Cockerton & B. McLean 31310)	P1	A.P. Brown <i>in litt.</i> (27/10/2011).
<i>Eremophila</i> sp. Ballythunna (R. Davis 11395)		See Brown & Buirchell (2011).
<i>Eremophila</i> sp. Ironstone (G. Cockerton & B. McLean LCH 31311)	P1	A.P. Brown <i>in litt.</i> (31/08/2011).
<i>Eremophila</i> sp. McDermid Rock (A.P. Brown 3615)		See Brown & Buirchell (2011).
<i>Eremophila</i> sp. Plumridge Lakes (S.G.M. Carr 534)		See Brown & Buirchell (2011).
<i>Eremophila</i> sp. Rothsay (D. Coultas & J. Kelt s.n. PERTH 08200440)	P1	See Brown & Buirchell (2011).
<i>Eremophila</i> sp. South Wubin (R. Davis 10648)		See Brown & Buirchell (2011).

New Name	Status	Comments
<i>Eremophila</i> sp. Wanna (M.J. Greeve & J.D. Start D7 44)		See Brown & Buirchell (2011).
<i>Eremophila</i> sp. Yinnetharra (J.D. Start D7 45)		See Brown & Buirchell (2011).
<i>Euphorbia centralis</i> B.G.Thomson		D.A. Halford <i>in sched.</i> (22/02/2010).
<i>Euphorbia</i> sp. Clay soil (C. Martene 04/07/2000)		D.A. Halford <i>in sched.</i> (4/04/2010).
<i>Fraxinus angustifolia</i> Vahl subsp. <i>angustifolia</i>	*	G.J. Keighery <i>in sched.</i> (22/11/2011).
<i>Goodia stenocarpa</i> I.Thomps.		See Thompson (2011b).
<i>Grammosolen truncatus</i> (Ising) Haegi		R. Davis <i>in litt.</i> (1/12/2011).
<i>Grevillea</i> sp. Turee (J. Bull & G. Hopkinson ONS JJ 01.01)	P1	S. Dillon <i>in sched.</i> (23/11/2011).
<i>Hibbertia axillaris</i> Toelken		See Toelken (2010).
<i>Hibbertia brevipedunculata</i> Toelken		See Toelken (2010).
<i>Hibbertia mollis</i> Toelken		See Toelken (2010).
<i>Hibbertia oblongata</i> DC. subsp. <i>brevifolia</i> (Benth.) Toelken		See Toelken (2010).
<i>Hibbertia scabrifolia</i> Toelken		See Toelken (2010).
<i>Hibbertia scopata</i> Toelken		See Toelken (2010).
<i>Hibbertia suffrutescens</i> Toelken		See Toelken (2010).
<i>Hypoestes aristata</i> Roem. & Schult.	*	G.J. Keighery <i>in litt.</i> (Sep. 2010).
<i>Indigofera australis</i> Willd. subsp. <i>hesperia</i> Peter G.Wilson & Rowe		See Wilson & Rowe (2010).
<i>Indigofera cornuligera</i> Peter G.Wilson & Rowe subsp. <i>cornuligera</i>		See Wilson & Rowe (2010).
<i>Kunzea</i> × <i>rosea</i> (Turcz.) Govaerts		See Govaerts <i>et al.</i> (2008) [<i>K. jucunda</i> × <i>K. preissiana</i>].
<i>Labichea</i> sp. Mt Holland (W.A. Thompson & J. Allen 949)		N. Gibson <i>in litt.</i> (3/03/2011).
<i>Leucopogon rigidus</i> DC.		M. Hislop <i>in litt.</i> (8/04/2011).
<i>Leucopogon</i> sp. Coomallo (R.J. Cranfield 1457)		M. Hislop <i>in litt.</i> (11/05/2011).
<i>Levenhookia murfetii</i> Lowrie & Conran		See Lowrie & Conran (2011).
<i>Merremia dissecta</i> (Jacq.) Hallier f. var. <i>dissecta</i>	*	See Staples (2010).
<i>Muelleranthus obovatus</i> I.Thomps.		See Thompson (2011a).
<i>Nymphaea lukei</i> S.W.L.Jacobs & Hellq.		See Jacobs & Hellquist (2011).
<i>Parthenium hysterophorus</i> L.	*	M. Hislop pers. comm. (Dec. 2011).

New Name	Status	Comments
<i>Portulaca</i> sp. rock pools (K.A. Menkhurst 310)		M. Hislop & D. Dixon <i>in litt.</i> (23/09/2011).
<i>Psoralea arborea</i> Sims	*	Extremely invasive. C. Stirton <i>in litt.</i> (29/09/2011).
<i>Sauropus</i> sp. Koodaideri detritals (J. Naaykens & J. Hurter JH 11213)		J. Hurter <i>in litt.</i> (15/09/2011).
<i>Solanum</i> sp. Gurinbiddy Range (M.E. Trudgen & M. Trudgen 12775)		J. Hurter & R. Davis <i>in litt.</i> (10/11/2011).
<i>Solanum</i> sp. Hamersley clay (D. Halford Q 9280)		J. Hurter & R. Davis <i>in litt.</i> (3/11/2011).
<i>Spathia neurosa</i> Ewart & M.E.L.Archer		J. Hurter <i>in sched.</i> (May 2011).
<i>Stylidium angustifolium</i> (Carlquist) Wege subsp. <i>angustifolium</i>		See Wege (2010).
<i>Stylidium</i> sp. Eneabba (J.A. Wege & K.A. Shepherd JAW 1623)		J.A. Wege <i>in litt.</i> (19/12/2011).
<i>Tephrosia brachyodon</i> Domin var. <i>longifolia</i> (Benth.) Domin		I. Cowie pers. comm. (Mar. 2011).
<i>Tephrosia</i> sp. clay soils (S. van Leeuwen <i>et al.</i> PBS 0273)		R. Butcher <i>in litt.</i> (27/09/2011).
<i>Tephrosia</i> sp. Dunes (J.R. Maconochie 938)		R. Butcher <i>in litt.</i> (13/04/2011).
<i>Tephrosia</i> sp. Kennedy Range (J.S. Beard 4392)	P1	R. Butcher <i>in litt.</i> (11/04/2011).
<i>Tephrosia</i> sp. Kununurra (T. Handasyde TH00 250)	P2	R. Butcher <i>in litt.</i> (11/04/2011).
<i>Tephrosia</i> sp. Onslow (K.R. Newbey 10571)		R. Butcher <i>in litt.</i> (11/04/2011).
<i>Tephrosia</i> sp. Pilbara (A.L. Payne PRP 1393)		R. Butcher <i>in litt.</i> (11/04/2011).
<i>Tephrosia</i> sp. Saw Ranges (D. Kabay s.n. PERTH 06720544)	P1	R. Butcher <i>in litt.</i> (11/04/2011).
<i>Tephrosia</i> sp. sparse pinnae (C.R. Michel 2202)		R. Butcher <i>in litt.</i> (12/04/2011).
<i>Thomasia</i> sp. Hopetoun (K. Newbey 4896)	P2	C.F. Wilkins & K. Shepherd <i>in litt.</i> (17/10/2011).
<i>Triodia barbata</i> R.L.Barrett & M.D.Barrett		See Barrett & Barrett (2011).
<i>Triodia cremnophila</i> R.L.Barrett & M.D.Barrett	P1	See Barrett & Barrett (2011).
<i>Ursinia anthemoides</i> (L.) Poir. subsp. <i>anthemoides</i>		See Thompson (2007).
<i>Zinnia elegans</i> Jacq.	*	CHAH (May 2011).

Table 2. Changes to existing entries in Western Australia's vascular plant census during 2011. Excluded name = a name used in the botanical literature that actually refers to one or more different taxa never occurring in WA; misapplied name = a name used in the botanical literature but now considered to refer to one or more different WA taxa; nomenclatural synonym = a superseded name based on the same type specimen as the accepted name—the epithet is usually transferred to a different genus name or rank; taxonomic synonym = a superseded name based on a different type specimen to the accepted name. Status: * = naturalised; T, P1–P4 = Conservation codes following Smith (2012).

Old name	New Name	Status	Comments
<i>Acacia aneura</i> Benth. var. <i>intermedia</i> Pedley	n/a		Excluded name. B. Maslin pers. comm. (23/06/2011).
<i>Acacia aneura</i> Benth. var. <i>argentea</i> Pedley	<i>Acacia caesaneura</i> Maslin & J.E.Reid ms		Name synonymised. J. Reid <i>in litt.</i> (1/04/2011).
<i>Acacia aneura</i> Benth. var. <i>conifera</i> Randell	<i>Acacia pteraneura</i> Maslin & J.E.Reid ms		Name synonymised. J. Reid <i>in litt.</i> (1/04/2011).
<i>Acacia aneura</i> Benth. var. <i>fuliginea</i> Pedley	<i>Acacia fuscaneura</i> Maslin & J.E.Reid ms		Name synonymised. J. Reid <i>in litt.</i> (1/04/2011).
<i>Acacia aneura</i> Benth. var. <i>major</i> Pedley	n/a		Excluded name. B. Maslin pers. comm. (7/06/2011).
<i>Acacia aneura</i> Benth. var. <i>microcarpa</i> Pedley	<i>Acacia incurvaneura</i> Maslin & J.E.Reid ms		Name synonymised. J. Reid <i>in litt.</i> (1/04/2011).
<i>Acacia aneura</i> Benth. var. <i>pilbarana</i> Pedley	<i>Acacia aptaneura</i> Maslin & J.E.Reid ms		Name synonymised. J. Reid <i>in litt.</i> (1/04/2011).
<i>Acacia galioides</i> Benth. var. <i>galioides</i>	<i>Acacia galioides</i> Benth.		Nomenclatural synonym. See Bostock & Holland (2010).
<i>Acacia galioides</i> Benth. var. <i>glabrifolia</i> (Domin) Pedley	<i>Acacia galioides</i> Benth.		Taxonomic synonym. See Bostock & Holland (2010).
<i>Acacia</i> sp. Little Sandy Desert (B.R. Maslin 2139)	<i>Acacia steedmanii</i> Maiden & Blakely subsp. <i>borealis</i> Maslin		Taxon formally published. See Maslin & Leeuwen (2008).
<i>Acacia wickhamii</i> Benth. subsp. <i>cassitera</i> (Pedley) Tindale ms	<i>Acacia wickhamii</i> Benth. subsp. <i>cassitera</i> (Pedley) Tindale & Kodela		Taxon formally published. See Kodela & Tindale (2001).
<i>Acacia wickhamii</i> Benth. subsp. <i>viscidula</i> (F.Muell.) Tindale, Kodela & D.Keith	<i>Acacia calligera</i> (Pedley) Pedley		Taxonomic synonym. See Pedley (2006) and B. Maslin <i>in litt.</i> (29/11/2011).
<i>Acacia wickhamii</i> Benth. subsp. <i>viscidula</i> (F.Muell.) Tindale & D.Keith ms	<i>Acacia wickhamii</i> Benth. subsp. <i>viscidula</i> (F.Muell.) Tindale, Kodela & D.Keith		Taxon formally published. See Kodela & Tindale (2001).
<i>Adenostemma lavenia</i> (L.) Kuntze	n/a		Name made current. Taxon reinstated by Orchard (2011).
<i>Adenostemma viscosum</i> J.R.Forst. & G.Forst.	<i>Adenostemma lavenia</i> (L.) Kuntze		Taxonomic synonym. See Orchard (2011).

Old name	New name	Status	Comments
<i>Andersonia</i> sp. Lower King (N. Hoyle 1500)	<i>Andersonia depressa</i> R.Br.	P4	Name synonymised. K. Lemson <i>in sched.</i> (15/5/2001).
<i>Austrostipa juncifolia</i> (Hughes) S.W.L.Jacobs & J.Everett subsp. Southern River (B.J. Keighery 2160)	<i>Austrostipa jacobiana</i> A.R.Williams	P1	Taxon formally published. See Williams (2011).
<i>Austrostipa</i> sp. Harvey (B.J. Keighery GWAL/1)	<i>Austrostipa bromwenae</i> A.R.Williams	P1	Taxon formally published. See Williams (2011).
<i>Brachiaria occidentalis</i> C.A.Gardner & C.E.Hubb. var. <i>occidentalis</i>	<i>Urochloa occidentalis</i> (C.A.Gardner & C.E.Hubb.) B.K.Simon var. <i>occidentalis</i> ms		Name synonymised. B.K. Simon <i>in sched.</i> (5/10/2006).
<i>Ceriops tagal</i> (Perr.) C.B.Rob.	n/a		Excluded name. See Sheue <i>et al.</i> (2009).
<i>Choretrum glomeratum</i> R.Br. var. <i>glomeratum</i>	<i>Choretrum glomeratum</i> R.Br.		Nomenclatural synonym. No varieties recognised. B.J. Lepschi pers. comm. (23/11/2011).
<i>Choretrum glomeratum</i> R.Br. var. <i>chrysanthum</i> (F.Muell.) Benth.	<i>Choretrum chrysanthum</i> F.Muell.		Nomenclatural synonym. No varieties recognised. B.J. Lepschi pers. comm. (23/11/2011).
<i>Conostephium</i> sp. Salt Lake (J. Buegge D7)	<i>Conostephium preissii</i> Sond.		Name synonymised. M. Hislop pers. comm. (29/11/2011).
<i>Cryptandra scoparia</i> Reissek subsp. <i>scoparia</i>	<i>Cryptandra scoparia</i> Reissek		Nomenclatural synonym. No subspecies recognised. See Rye (2007).
<i>Danthonia penicillata</i> (Labill.) P.Beauv.	n/a		Excluded name. See Linder (2005).
<i>Distichostemon hispidulus</i> (Endl.) Baill.	<i>Dodonaea hispidula</i> Endl.		Nomenclatural synonym. See Harrington & Gadek (2010).
<i>Distichostemon hispidulus</i> (Endl.) Baill. var. <i>aridus</i> S.T.Reynolds	<i>Dodonaea hispidula</i> Endl. var. <i>arida</i> (S.T.Reynolds) M.G.Harr.		Nomenclatural synonym. See Harrington & Gadek (2010).
<i>Distichostemon hispidulus</i> (Endl.) Baill. var. <i>phyllopterus</i> (F.Muell.) S.T.Reynolds	<i>Dodonaea hispidula</i> Endl. var. <i>phylloptera</i> (F.Muell.) M.G.Harr.		Nomenclatural synonym. See Harrington & Gadek (2010).
<i>Ecdeiocola</i> sp. Rigid (R.V. Smith 66/281)	<i>Ecdeiocola rigens</i> B.G.Briggs		Taxon formally published. See Briggs (2011).
<i>Eleocharis</i> sp. A Kimberley Flora (W.V. Fitzgerald 1038)	<i>Eleocharis rivalis</i> K.L.Wilson		Taxon formally published. See Wilson (2011).

Old name	New name	Status	Comments
<i>Eleocharis</i> sp. B. Kimberley Flora (K.F. Kenneally 8727)	<i>Eleocharis sanguinolenta</i> K.L.Wilson		Taxon formally published. See Wilson (2011).
<i>Elymus rectisetus</i> (Nees) A.Love & Connor	<i>Anthosachne rectiseta</i> (Nees) Barkworth & S.W.L.Jacobs		Nomenclatural synonym. See Barkworth (2011).
<i>Elymus scaber</i> (R.Br.) A.Love	<i>Anthosachne scabra</i> (R.Br.) Nevski		Nomenclatural synonym. See Barkworth (2011).
<i>Eremophila ostrina</i> Chinnock ms	<i>Eremophila</i> sp. Ostrina (M. Officer 164)		To align with CHAH phrase name protocols (July 2011).
<i>Eremophila pensilis</i> Chinnock ms	<i>Eremophila</i> sp. Little Sandy Desert (A.A. Mitchell PRP 1263)		To align with CHAH phrase name protocols (July 2011).
<i>Eremophila ringens</i> Chinnock ms	<i>Eremophila</i> sp. Byro (R. Wait 6128/97)	P3	To align with CHAH phrase name protocols (July 2011).
<i>Eremophila sulcata</i> Chinnock ms	<i>Eremophila</i> sp. Great Victoria Desert (R. Davis 10621)	P2	To align with CHAH phrase name protocols (July 2011).
<i>Eucalyptus</i> sp. Mt King (S. van Leeuwen 3605)	<i>Eucalyptus</i> sp. Mt Nameless (D. Nicolle 1191)		Name synonymised. D. Nicolle <i>in litt.</i> (20/9/2011).
<i>Eucalyptus vegrandis</i> L.A.S.Johnson & K.D.Hill subsp. Fine leaf (P.J. White 452)	<i>Eucalyptus orthostemon</i> D.Nicolle & Brooker		Name synonymised. D. Nicolle <i>in sched.</i> (Aug. 2002).
<i>Flaveria australasica</i> Hook. subsp. <i>gilgai</i> Keighery	<i>Flaveria</i> sp. Tom Price (M.E. Trudgen 11246)		Name synonymised. T. Macfarlane & N. Lander <i>in litt.</i> (Feb. 2011).
<i>Flaveria</i> sp. Tom Price (M.E.) Trudgen 11246)	n/a		Name made current. Taxon reinstated by T. Macfarlane <i>in litt.</i> (Feb. 2011).
<i>Gompholobium</i> sp. Yanchep (R. Davis 11129)	<i>Gompholobium</i> <i>shuttleworthii</i> Meisn.		Name synonymised. C. Wilkins <i>in sched.</i> (8/2/2007).
<i>Hibbertia cistifolia</i> DC.	n/a		Excluded name. See Toelken (2010).
<i>Hibbertia oblongata</i> DC. var. <i>oblongata</i>	n/a		Excluded name. See Toelken (2010).
<i>Hibbertia oblongata</i> DC. var. <i>brevifolia</i> Benth.	<i>Hibbertia oblongata</i> DC. subsp. <i>brevifolia</i> (Benth.) Toelken		Nomenclatural synonym. See Toelken (2010).
<i>Hibbertia</i> sp. A Kimberley Flora (T.E.H. Aplin et al. 898)	<i>Hibbertia suffrutescens</i> Toelken		Taxon formally published. See Toelken (2010a).
<i>Ilysanthes lobelioides</i> (F.Muell.) Benth.	<i>Lindernia lobelioides</i> (F.Muell.) F. Muell.		Nomenclatural synonym. M.D. Barrett <i>in litt.</i> (9/3/2011).

Old name	New name	Status	Comments
<i>Indigofera leucotricha</i> E.Pritz.	n/a		Excluded name. See Wilson & Rowe (2010).
<i>Leptopus decaisnei</i> (Benth.) Pojark.	<i>Notoleptopus decaisnei</i> (Benth.) Voronts. & Petra Hoffm.		Nomenclatural synonym. See Vorontsova & Hoffman (2008).
<i>Leptopus decaisnei</i> (Benth.) Pojark. var. <i>decaisnei</i>	<i>Notoleptopus decaisnei</i> (Benth.) Voronts. & Petra Hoffm. var. <i>decaisnei</i>		Nomenclatural synonym. See Vorontsova & Hoffman (2008).
<i>Leptopus decaisnei</i> (Benth.) Pojark. var. <i>orbicularis</i> (Benth.) Airy Shaw	<i>Notoleptopus decaisnei</i> (Benth. Voronts. & Petra Hoffm. var. <i>orbicularis</i> (A.B. Craig 428)		Name synonymised. See Vorontsova & Hoffman (2008).
<i>Lindernia lobelioides</i> (F.Muell.) F.Muell.	n/a		Excluded name. Specimens referable to <i>L. clausa</i> . M.D. Barrett <i>in litt.</i> (9/03/2011).
<i>Melaleuca citrina</i> Turcz.	<i>Melaleuca lutea</i> Craven		Nomenclatural synonym. See Craven <i>et al.</i> (2010b).
<i>Meziella trifida</i> (Nees) Schindl.	<i>Myriophyllum trifidum</i> (Nees) M.L.Moody & Les	T	Nomenclatural synonym. See Moody & Les (2010).
<i>Microcorys wilsoniana</i> B.J.Conn	n/a		Name made current. Taxon reinstated by G. Guerin <i>in</i> <i>litt.</i> (8/11/2010).
<i>Muelleranthus crenulatus</i> A.T.Lee	<i>Paragoodia crenulata</i> (A.T.Lee) I.Thomps.	T	Nomenclatural synonym. See Thompson (2011a).
<i>Nymphaea immutabilis</i> S.W.L.Jacobs subsp. <i>immutabilis</i>	<i>Nymphaea immutabilis</i> S.W.L.Jacobs	P2	Nomenclatural synonym. Subspecies no longer recognised. See Jacobs & Hellquist (2011).
<i>Nymphaea immutabilis</i> S.W.L.Jacobs subsp. <i>kimberleyensis</i> S.W.L.Jacobs	<i>Nymphaea kimberleyensis</i> (S.W.L.Jacobs) S.W.L.Jacobs & Hellq.		Nomenclatural synonym. See Jacobs & Hellquist (2011).
<i>Pachynema</i> sp. Prince Regent (M.D. Barrett & R.L. Barrett 1342)	<i>Hibbertia</i> sp. Prince Regent (M.D. Barrett & R.L. Barrett 1342)	P2	Name synonymised. M.D. Barrett pers. comm. (Dec. 2010). See Horn (2009).
<i>Pachynema sphenandrum</i> F.Muell. & Tate	<i>Hibbertia sphenandra</i> (F.Muell. & Tate) J.W.Horn		Nomenclatural synonym. See Horn (2009).
<i>Petrophile</i> sp. Whicher Range (G.J. Keighery 11790)	<i>Petrophile latericola</i> Keighery	T	Taxon formally published. See Keighery (2010).
<i>Ptilotus astrolasius</i> F.Muell. var. <i>astrolasius</i>	<i>Ptilotus astrolasius</i> F.Muell.		Nomenclatural synonym. Varieties no longer recognised. See Davis (2009).

Old name	New name	Status	Comments
<i>Ptilotus chortophytum</i> (Diels) Schinz	<i>Ptilotus chortophytus</i> (Diels) Schinz		Orthographic variant. See APNI (accessed 8/03/2011).
<i>Ptychosema anomalum</i> F.Muell.	<i>Aenictophyton anomalum</i> (F.Muell.) I.Thomps.		Nomenclatural synonym. See Thompson (2011a).
<i>Scaevola graminea</i> Ewart & A.H.K.Petrie	n/a		Excluded. See APNI (accessed 10/3/2011).
<i>Securinea melanthesoides</i> (F.Muell.) Airy Shaw	<i>Flueggea virosa</i> (Willd.) Voigt subsp. <i>melanthesoides</i> (F.Muell.) G.L.Webster		Nomenclatural synonym. See Barker & Welzen (2010).
<i>Spermacoce abbreviata</i> Dessein ms	<i>Spermacoce</i> sp. <i>Abbreviata</i> (A.A. Mitchell 3473)		To align with CHAH phrase name protocols (May 2011).
<i>Spermacoce cylindrata</i> Dessein ms	<i>Spermacoce</i> sp. <i>Cylindrata</i> (R.K. Harwood 1443)		To align with CHAH phrase name protocols (May 2011).
<i>Spermacoce hippocrepica</i> Dessein ms	<i>Spermacoce</i> sp. <i>Hippocrepica</i> (C.R. Dunlop 5407)		To align with CHAH phrase name protocols (May 2011).
<i>Spermacoce melanosperma</i> Dessein ms	<i>Spermacoce</i> sp. <i>Melanosperma</i> (R.K. Harwood 1442)		To align with CHAH phrase name protocols (May 2011).
<i>Spermacoce nudiuscula</i> Dessein ms	<i>Spermacoce</i> sp. <i>Nudiuscula</i> (A.A. Mitchell 3459 A)		To align with CHAH phrase name protocols (May 2011).
<i>Spermacoce oxytheca</i> Dessein ms	<i>Spermacoce</i> sp. C Kimberley Flora (K.F. Kenneally 7960)		To align with CHAH phrase name protocols (May 2011).
<i>Spermacoce platysperma</i> Dessein ms	<i>Spermacoce</i> sp. <i>Platysperma</i> (J.R. Clarkson 6546)		To align with CHAH phrase name protocols (May 2011).
<i>Spermacoce polygama</i> Dessein ms	<i>Spermacoce</i> sp. <i>Polygama</i> (R.K. Harwood 1537)		To align with CHAH phrase name protocols (May 2011).
<i>Spermacoce saxatilis</i> Dessein ms	<i>Spermacoce</i> sp. <i>Saxatilis</i> (R.K. Harwood 1538)		To align with CHAH phrase name protocols (May 2011).
<i>Spermacoce</i> sp. A Kimberley Flora (T.E.H. Aplin et al. 995)	<i>Spermacoce cylindrata</i> Dessein ms		Name synonymised. See <i>Spermacoce</i> sp. <i>Cylindrata</i> (R.K. Harwood 1443). CHAH (May 2011).
<i>Spermacoce</i> sp. B Kimberley Flora (K.F. Kenneally 10883)	<i>Spermacoce cylindrata</i> Dessein ms		Name synonymised. See <i>Spermacoce</i> sp. <i>Cylindrata</i> (R.K. Harwood 1443). CHAH (May 2011).
<i>Spermacoce</i> sp. C Kimberley (K.F. Kenneally 7960)	n/a		Name made current. To align with CHAH phrase name protocols. CHAH (May 2011).

Old name	New name	Status	Comments
<i>Stylidium asteroideum</i> F.L.Erickson & J.H.Willis	n/a	P3	Name made current. Taxon reinstated by J.A. Wege <i>in sched.</i> (30/08/2011).
<i>Stylidium glaucifolium</i> (Carlquist) Wege ms	<i>Stylidium angustifolium</i> (Carlquist) Wege subsp. <i>glaucifolium</i> (Carlquist) Wege		Taxon formally published. See Wege (2010).
<i>Stylidium obtusatum</i> Sond. var. <i>obtusatum</i>	<i>Stylidium obtusatum</i> Sond.		Nomenclatural synonym. No varieties recognised. J.A. Wege <i>in litt.</i> (23/3/2010).
<i>Stylidium</i> sp. Mt Barker (E.J. Croxford 1906)	<i>Stylidium acuminatum</i> (Carlquist) Wege subsp. <i>meridionale</i> Wege		Taxon formally published. See Wege (2010).
<i>Syzygium armstrongii</i> (Benth.) B.Hyland	n/a		Excluded. L.A. Craven & J.A. Matarczyk <i>in sched.</i> (1997).
<i>Tecticornia</i> sp. Fortescue Marsh (K.A. Shepherd et al. KS 1055)	<i>Tecticornia globulifera</i> K.A.Sheph.	P1	Taxon formally published. See Shepherd & Leeuwen (2011).
<i>Tecticornia</i> sp. Roy Hill (H. Pringle 62)	<i>Tecticornia medusa</i> K.A.Sheph. & S.J.van Leeuwen	P3	Taxon formally published. See Shepherd & Leeuwen (2011).
<i>Tephrosia filipes</i> Benth. var. <i>filipes</i>	n/a		Name made current. Taxon reinstated by I. Cowie & R. Butcher <i>in sched.</i> (Mar. 2011).
<i>Tephrosia stuartii</i> Benth.	n/a		Name made current. Taxon reinstated by R. Butcher <i>in litt.</i> (20/04/2011).
<i>Thysanotus volubilis</i> R.Br.	n/a		Name made current. Taxon reinstated by M. Hislop & Paul G. Wilson <i>in litt.</i> (29/11/2011).
<i>Tritonia lineata</i> (Salisb.) Ker Gawl.	<i>Tritonia gladiolaris</i> (Lam.) Goldblatt & J.C.Manning	*	Taxonomic synonym. See Goldblatt & Manning (2006).
<i>Wedelia</i> sp. B Kimberley Flora (M. Lazarides 6380)	<i>Wedelia verbesinoides</i> Benth.	P1	Name synonymised. CHAH (May 2011).
<i>Wedelia trilobata</i> (L.) Hitchc.	<i>Sphagneticola trilobata</i> (L.) Pruski	*	Nomenclatural synonym. See Pruski (1996).

References

- APNI (2011). *Australian Plant Name Index*. IBIS database. Centre for Australian National Biodiversity Research, Australian Government, Canberra. <http://www.cpbr.gov.au/cgi-bin/apni> [accessed 8/03/2011–22/12/2011].
- Barker, W.R. (2005). Standardising informal names in Australian publications. *Australian Systematic Botany Society Newsletter* 122: 11–12.
- Barker, C. & Welzen, P.C. van (2010). *Flueggea* (Euphorbiaceae s.l. or Phyllanthaceae) in Malesia. *Systematic Botany* 35(3): 546–548.
- Barker, R.M. & Lang, P.J. (2012). Name changes associated with the South Australian census of vascular plants for the calendar year. *Journal of the Adelaide Botanic Gardens* 25: 97–103.
- Barkworth, M.E. (2011). The *Triticeae* (Gramineae) in Australasia. *Telopea* 13(1-2): 37–56.
- Barrett, R.L. & Barrett, M.D. (2011). Two new species of *Triodia* (Poaceae: Triodiaceae) from the Kimberley region of Western Australia. *Telopea* 13(1-2): 57–67.
- Bostock, P.D. & Holland, A.E. (eds) (2010). *Census of the Queensland flora 2010*. Queensland Herbarium, Department of Environment and Resource Management, Brisbane.
- Briggs, B.G. (2011). *Ecdiocollea rigens*, a new species of Ecdiocolleaceae (Poales) from Western Australia. *Telopea* 13(1-2): 69–75.
- Brown, A. & Buirchell, B. (2011). *A field guide to the Eremophilas of Western Australia*. (Simon Nevill Publications: Fremantle.)
- Chinnock, R.J. (2007). *Eremophila and allied genera: a monograph of the plant family Myoporaceae*. (Rosenburg Publishing: Sydney.)
- Council of Heads of Australasian Herbaria (2007–). *Australian Plant Census (APC)*. IBIS database. Centre for Australian National Biodiversity Research, Australian Government, Canberra. <http://www.anbg.gov.au/chah/apc/about-APC.html> [accessed 8/03/2011 – 22/12/2011].
- Craven, L.A., Lepschi, B.J. & Fryxell, P.A. (2010a). A new species of *Cleome* from northwestern Australia (Capparaceae). *Blumea* 55(1): 100–101.
- Craven, L.A., Lepschi, B.J. & Cowley, K.J. (2010b). *Melaleuca* (Myrtaceae) of Western Australia: five new species, three new combinations, one new name and a new state record. *Nuytsia* 20: 27–36.
- Davis, R.W. (2009). *Ptilotus luteolus*, a new combination in *Ptilotus* (Amaranthaceae), *Nuytsia* 19(2): 311–312.
- Goldblatt, P. & Manning, J.C. (2006). Notes on the systematics and nomenclature of *Tritonia* (Iridaceae: Crocoideae). *Bothalia* 36: 57–61.
- Govaerts, R., Sobral, M., Ashton, P., Barrie, F., Holst, B.K., Landrum, L.L., Matsumoto, K., Mazine, F.F., Lughadha, E.N., Proença, C., Soares-Silva, L.H., Wilson, P.G. & Lucas, E. (eds) (2008). *World checklist of Myrtaceae*. (Kew Publishing: London.)
- Green, J.W. (1985). *Census of the vascular plants of Western Australia*. 2nd edn. (Western Australian Herbarium: South Perth.)
- Green, J.W. (1988). *Census of the vascular plants of Western Australia. Cumulative supplement no. 7*. (Western Australian Herbarium: South Perth.)
- Harrington, M.G. & Gadek, P.A. (2010). Phylogenetics of hopbushes and pepperflowers (*Dodonaea*, *Diplopetalis*–Sapindaceae), based on nuclear ribosomal ITS and partial ETS sequences incorporating secondary-structure models. *Australian Systematic Botany* 23: 431–442.
- Horn, J.W. (2009). Phylogenetics of Dilleniaceae using sequence data from four plastid loci (*rpcL*, *infA*, *rps4*, *rpl16* Intron). *International Journal of Plant Science* 170(6): 794–813.
- Jacobs, S.W.L. & Hellquist, C.B. (2011). New species, possible hybrids and intergrades in Australian *Nymphaea* (Nymphaeaceae) with a key to all species. *Telopea* 13(1-2): 233–243.
- Johnson, M.F. (1971). A monograph of the Genus *Ageratum* L. (Compositae–Eupatoriaceae). *Annals of the Missouri Botanical Gardens* 58: 6–88.
- Keighery, G. (2010). A new species of *Petrophile* (Proteaceae) from the Whicher Range. *Western Australian Naturalist* 27: 103–106.
- Kodala, P.G. & Tindale, M.D. (2001). *Acacia wickhamii*. In: Orchard, A.E. & Wilson, A.J.G. (eds) *Flora of Australia*. Vol. 11B: Mimosaceae, *Acacia* part 2. pp. 241–245, 488.
- Linder, H.P. (2005). Danthoideae. In: Mallett, K. (ed.) *Flora of Australia*. Vol. 44B: Poaceae 3. pp. 19–70.
- Lowrie, A. & Conran, J.G. (2011). An overview of the Australian *Levenhookia* (Stylidiaceae) complex, including a new species (*L. murfetii*) and observations on the triggering methods employed for pollination and outcrossing. *Triggerplant Journal: journal of the International Triggerplant Society* 1(2): 14–16.

- Mabberley, D.J. (2008). *Mabberley's Plant-Book: a portable dictionary of plants, their classifications and uses*. 3rd edn. (Cambridge University Press: Cambridge.)
- Maslin, B.R. & Leeuwen, S. van (2008). New taxa of *Acacia* (Leguminosae: Mimosoideae) and notes on other species from the Pilbara and adjacent desert regions of Western Australia. *Nyctisia* 18: 139–188.
- Moody, M. & Les, D.H. (2010). Systematics of the aquatic angiosperm genus *Myriophyllum* (Haloragaceae). *Systematic Botany* 35(1): 121–139.
- Orchard, A.E. (2011). A review of Australian *Adenostemma* J.R.Forst. & G.Forst. (Asteraceae: Eupatorieae). *Telopea* 13(1-2): 341–348.
- Pedley, L. (2006). Nomenclatural notes on *Acacia* Mill. (Leguminosae – Mimosaceae), consequential to the conservation of its name. *Austrobaileya* 7(2): 381–381.
- Pruski, J. (1996). Compositae of the Guayana Highland – XI. *Tuberculocarpus* gen. nov. and some other Ecliptinae (Heliantheae). *Novon* 6(1): 404–418.
- Rye, B.L. (2007). New species and keys for *Cryptandra* and *Stenanthemum* (Rhamnaceae) in Western Australia. *Nyctisia* 16(2): 325–382.
- Sagun, V.G., Levin, G.A. & Welzen, P.C. van (2010). Revision and phylogeny of *Acalypha* (Euphorbiaceae) in Malesia. *Blumea* 55(1): 21–60.
- Sheue, C., Yang, Y., Liu, H., Chou, F., Chang, H., Saenger, P., Mangion, C.P., Wightman, G., Yong, J. & Tsai, C. (2009). Reevaluating the taxonomic status of *Ceriops australis* (Rhizophoraceae) based on morphological and molecular evidence. *Botanical Studies* 50: 89–100.
- Shepherd, K.A. & Leeuwen, S. van (2011). *Tecticornia globulifera* and *T. medusa* (subfamily Salicornioideae: Chenopodiaceae), two new priority samphires from the Fortescue Marsh in the Pilbara region of Western Australia. *Telopea* 13(1-2): 349–358.
- Shepherd, K. A. & Trudgen, M.E. (2011). *Eragrostis surreyana* (Poaceae) an uncommon, habitat restricted new species from the Pilbara Bioregion of Western Australia. *Telopea* 13(1-2): 143–148.
- Smith, M.G. (2012). *Threatened and Priority Flora list for Western Australia*. (Department of Environment and Conservation: Kensington, Western Australia.)
- Staples, G.W. (2010). A checklist of *Merremia* (Convolvulaceae) in Australasia and the Pacific. *The Gardens' Bulletin Singapore* 61(2): 483–522.
- Thompson, I.R. (2007). A taxonomic treatment of tribe Anthemideae (Asteraceae) in Australia. *Muelleria* 25: 21–58.
- Thompson, I.R. (2011a). A revision of *Muelleranthus*, *Ptychosema* and *Aenictophyton* (Fabaceae: Bossiaceae). *Muelleria* 29: 173–189.
- Thompson, I.R. (2011b). A revision of *Goodia* (Fabaceae: Bossiaceae). *Muelleria* 29: 141–153.
- Toelken, H.R. (2010). Notes on *Hibbertia* (Dilleniaceae) 5. *H. helhaniaoides* and *H. tomentosa* groups from tropical Australia. *Journal of the Adelaide Botanic Gardens* 23: 1–117.
- Vorontsova, M.S. & Hoffmann, P. (2008). A phylogenetic classification of tribe *Porantherae* (Phyllanthaceae, Euphorbiaceae *sensu lato*). *Kew Bulletin* 63(1): 41–59.
- Wege, J.A. (2010). *Stylidium* miscellany 1: typifications and new taxa from south-west Western Australia. *Nyctisia* 20: 79–108.
- Western Australian Herbarium (1998–). *FloraBase—the Western Australian Flora*. Department of Environment and Conservation, Perth. <http://florabase.dec.wa.gov.au/> [accessed 08/03/2011 – 22/12/2011].
- Williams, A.R. (2011). *Austrostipa* (Poaceae) subgenus *Lobatatae* in Western Australia. *Telopea* 13(1-2): 177–192.
- Wilson, K.L. (2011). New species of *Eleocharis* (family Cyperaceae) in Australia. *Telopea* 13(1-2): 295–312.
- Wilson, P.G. & Rowe, R. (2010). New taxa and typifications in *Indigofera* (Fabaceae) for South Australia. *Journal of the Adelaide Botanic Gardens* 24: 67–73.
- Woodman, S. & Gioia, P. (1997–). *Max—a species database helper for Windows*. (Department of Environment and Conservation: Perth.)

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